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PTO/SB/21 (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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# TRANSMITTAL FORM

(To be used for all correspondence after initial filing)

|                      |                  |
|----------------------|------------------|
| Application Number   | 09/651,236       |
| Filing Date          | August 9, 2000   |
| First Named Inventor | Jiangchun Xu     |
| Group Art Unit       | 1646             |
| Examiner Name        | Not Yet Assigned |
| Attorney Docket No.  | 210121.427C18    |

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TECH CENTER 1600/2900

## ENCLOSURES (check all that apply)

- ☐ Fee Transmittal Form
- ☐ Fee Attached
- ☐ Amendment/Response
- ☐ After Final
- ☐ Affidavits/declaration(s)
- ☐ Extension of Time Request
- ☐ Express Abandonment Request
- ☒ Supplemental Information Disclosure Statement; Form PTO-1449
- ☒ Cited References (3)
- ☐ Certified Copy of Priority Document(s)
- ☐ Response to Missing Parts under 37 C.F.R. 1.52 or 1.53
- ☐ Response to Missing Parts/Incomplete Application

- ☐ Assignment Papers (for an Application)
- ☐ Drawing(s)
- ☐ Request for Corrected Filing Receipt
- ☐ Licensing-related Papers
- ☐ Petition
- ☐ Petition to Convert to a Provisional Application
- ☐ Power of Attorney, Revocation, Change of Correspondence Address
- ☐ Declaration
- ☐ Statement under 37 CFR 3.73(b)
- ☐ Terminal Disclaimer
- ☐ Small Entity Statement
- ☐ Request for Refund

- ☐ CD(s), Number of CD(s) \_\_\_\_\_
- ☐ After Allowance Communication to Group
- ☐ Appeal Communication to Board of Appeals and Interferences
- ☐ Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)
- ☐ Proprietary Information
- ☐ Status Letter
- ☒ Return Postcard
- ☒ Additional Enclosure(s) (please identify below):  
Copy of Search Report for corresponding Application PCT/US01/01574

Remarks

## SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Individual Name Jeff Hundley, 42,676



00500

PATENT TRADEMARK OFFICE

Signature

Date

10/13/01

## CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service with Express Mail No. EL897872685US in an envelope addressed to: Commissioner for Patents, Washington, D.C. 20231 on the date specified below.

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#5  
D. Q. J.  
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Applicants : Jiangchun Xu et al.  
Application No. : 09/651,236  
Filed : August 9, 2000  
For : COMPOSITIONS AND METHODS FOR THE THERAPY AND  
DIAGNOSIS OF PROSTATE CANCER

Art Unit : 1646  
Docket No. : 210121.427C18  
Date : October 12, 2001

Commissioner for Patents  
Washington, DC 20231

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents:


In accordance with 37 C.F.R. §§ 1.56 and 1.97 through 1.98, applicants wish to make known to the Patent and Trademark Office the references set forth on the attached Form PTO-1449 (copies of the cited references, as required under 37 C.F.R. § 1.98, are enclosed). As to any reference made of record on the attached Form PTO-1449, applicants do not admit that it is "prior art" under 35 U.S.C. §§ 102 or 103, and specifically reserve the right to traverse or antedate any such reference, as by a showing under 37 C.F.R. § 1.131 or other method. Although the aforesaid references are made known to the Patent and Trademark Office in compliance with applicants' duty to disclose all information they are aware of which is believed relevant to the examination of the above-identified application, applicants believe that their invention is patentable.

We hereby certify that each of the references set forth on the attached Form PTO-1449 was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement.

These documents were cited in a Search Report for corresponding application PCT/US01/01574, mailed August 13, 2001.

Please acknowledge receipt of this Supplemental Information Disclosure Statement and kindly make the cited references of record in the above-identified application.

Respectfully submitted,  
Seed Intellectual Property Law Group PLLC

  
Jeff Hundley  
Registration No. 42,676

JH:nka

Enclosures:

Postcard  
Form PTO/SB/21  
Form PTO-1449  
Cited References (3)

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Seattle, Washington 98104-7092  
Phone: (206) 622-4900  
Fax: (206) 682-6031

F:\Pat\p7-17e.doc

# PATENT COOPERATION TREATY

#5 attachment  
09/05/236

From the INTERNATIONAL SEARCHING AUTHORITY

## PCT

INVITATION TO PAY ADDITIONAL FEES

(PCT Article 17(3)(a) and Rule 40.1)

To:  
SEED INTELLECTUAL PROPERTY LAW GROU  
P PLLC  
Attn. Potter, Jane E.R.  
Suite 6300  
701 Fifth Avenue  
Seattle, WA 98104-7092  
UNITED STATES OF AMERICA

Date of mailing  
(day/month/year) 13/09/2001

Applicant's or agent's file reference

210121.42722

**PAYMENT DUE**

within 45 ~~days~~ days  
from the above date of mailing

International application No.

PCT/US 01/ 01574

International filing date  
(day/month/year)

16/01/2001

Applicant

CORIXA CORPORATION

1. This International Searching Authority

- (i) considers that there are 528 (number of) inventions claimed in the international application covered by the claims indicated ~~XXX~~ on the extra sheet:

and it considers that the international application does not comply with the requirements of unity of invention (Rules 13.1, 13.2 and 13.3) for the reasons indicated ~~XXX~~ on the extra sheet:

- (ii) ☒ has carried out a partial international search (see Annex) ☐ will establish the international search report on those parts of the international application which relate to the invention first mentioned in claims Nos.:

**See Additional Sheet, Invention 1.**

- (iii) will establish the international search report on the other parts of the international application only if, and to the extent to which, additional fees are paid

2. The applicant is hereby invited, within the time limit indicated above, to pay the amount indicated below:

EUR 945,00 x 527 = EUR 498.015,00  
Fee per additional invention number of additional inventions total amount of additional fees

Or, \_\_\_\_\_ x \_\_\_\_\_ = \_\_\_\_\_

The applicant is informed that, according to Rule 40.2(c), the payment of any additional fee may be made under protest, i.e., a reasoned statement to the effect that the international application complies with the requirement of unity of invention or that the amount of the required additional fee is excessive.

3. ☒ Claim(s) Nos. See Remark have been found to be unsearchable under Article 17(2)(b) because of defects under Article 17(2)(a) and therefore have not been included with any invention.

Name and mailing address of the International Searching Authority



European Patent Office, P.B. 5818 Patentlaan 2  
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Fax: (+31-70) 340-3016

Authorized officer

Andria Overbeeke-Siepkens

**Annex to Form PCT/ISA/206  
COMMUNICATION RELATING TO THE RESULTS  
OF THE PARTIAL INTERNATIONAL SEARCH**

International Application No

PCT/US 01/01574

1. The present communication is an Annex to the invitation to pay additional fees (Form PCT/ISA/206). It shows the results of the international search established on the parts of the international application which relate to the invention first mentioned in claims Nos.:

1-7, 9-18

2. This communication is not the international search report which will be established according to Article 18 and Rule 43.

3. If the applicant does not pay any additional search fees, the information appearing in this communication will be considered as the result of the international search and will be included as such in the international search report.

4. If the applicant pays additional fees, the international search report will contain both the information appearing in this communication and the results of the international search on other parts of the international application for which such fees will have been paid.

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

| Category * | Citation of document, with indication, where appropriate, of the relevant passages  | Relevant to claim No.                  |
|------------|---|--|
| X<br>Y     | WO 98 37093 A (CORIXA CORP)<br>27 August 1998 (1998-08-27)<br>the whole document  | 1-5,7,9,<br>12-14<br>6,10,11,<br>15-18 |
| X<br>Y     | WO 98 37418 A (CORIXA CORP)<br>27 August 1998 (1998-08-27)<br>the whole document  | 1-6,9,<br>15-17<br>6,15-17             |
| A          | WO 97 33909 A (CORIXA CORP)<br>18 September 1997 (1997-09-18)   |  |
| Y          | SJOGREN H O: "Therapeutic immunization<br>against cancer antigens using genetically<br>engineered cells"<br>IMMUNOTECHNOLOGY, ELSEVIER SCIENCE<br>PUBLISHERS BV, NL,<br>vol. 3, no. 3,<br>1 October 1997 (1997-10-01), pages<br>161-172, XP004097000<br>ISSN: 1380-2933<br>the whole document | 10,11,18                               |
| P,X        | WO 00 04149 A (CORIXA CORP)<br>27 January 2000 (2000-01-27)<br>the whole document   | 1-7,9-18                               |

-/--

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

**Annex to Form PCT/ISA/206  
COMMUNICATION RELATING TO THE RESULTS  
OF THE PARTIAL INTERNATIONAL SEARCH**

International Application No

**PCT/US 01/01574**

**C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT**

| Category * | Citation of document, with indication, where appropriate, of the relevant passages   | Relevant to claim No. |
|------------|--|-----------------------|
| E          | WO 01 25272 A (CORIXA CORP ; REED STEVEN G (US); XU JIANGCHUN (US); CHEEVER MARTIN)<br>12 April 2001 (2001-04-12)<br>SEQ ID NO 1<br>claims               | 1-7,9-18              |
| E          | ---<br>WO 01 34802 A (HARLOCKER SUSAN L ; CORIXA CORP (US); DAY CRAIG H (US); JIANG YUQIU)<br>17 May 2001 (2001-05-17)<br>SEQ ID NO 1<br>claims<br>----- | 1-7,9-18              |

# Patent Family Annex

Information on patent family members

International Application No

PCT/US 01/01574

| Patent document<br>cited in search report |   | Publication<br>date | Patent family<br>member(s) | Publication<br>date |
|---|---|---------------------|----------------------------|---------------------|
| WO 9837093                                | A | 27-08-1998          | US 6261562 B               | 17-07-2001          |
|   |   |                     | AU 731840 B                | 05-04-2001          |
|   |   |                     | AU 6181898 A               | 09-09-1998          |
|   |   |                     | CN 1252837 T               | 10-05-2000          |
|   |   |                     | EP 1005546 A               | 07-06-2000          |
|   |   |                     | HU 0002095 A               | 28-10-2000          |
|   |   |                     | NO 994069 A                | 22-10-1999          |
|   |   |                     | PL 335348 A                | 25-04-2000          |
|   |   |                     | TR 9902053 T               | 21-04-2000          |
|   |   |                     | US 6262245 B               | 17-07-2001          |
|   |   |                     | ZA 9801585 A               | 04-09-1998          |
| WO 9837418                                | A | 27-08-1998          | AU 6536898 A               | 09-09-1998          |
|   |   |                     | BR 9807734 A               | 31-10-2000          |
|   |   |                     | EP 0972201 A               | 19-01-2000          |
|   |   |                     | ZA 9801536 A               | 08-01-1999          |
| WO 9733909                                | A | 18-09-1997          | AU 728186 B                | 04-01-2001          |
|   |   |                     | AU 2329597 A               | 01-10-1997          |
|   |   |                     | BR 9708082 A               | 27-07-1999          |
|   |   |                     | CA 2249742 A               | 18-09-1997          |
|   |   |                     | EP 0914335 A               | 12-05-1999          |
|   |   |                     | NO 984229 A                | 13-11-1998          |
|   |   |                     | US 6034218 A               | 07-03-2000          |
| WO 0004149                                | A | 27-01-2000          | AU 5314899 A               | 07-02-2000          |
|   |   |                     | EP 1097208 A               | 09-05-2001          |
|   |   |                     | NO 20010196 A              | 12-03-2001          |
| WO 0125272                                | A | 12-04-2001          | AU 7994200 A               | 10-05-2001          |
| WO 0134802                                | A | 17-05-2001          | AU 6158700 A               | 30-01-2001          |
|   |   |                     | WO 0104143 A               | 18-01-2001          |

## PATENT COOPERATION TREATY

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UNITED STATES OF AMERICA

## INVITATION TO PAY ADDITIONAL FEES

(PCT Article 17(3)(a) and Rule 40.1)

|  |   |
|--|---|
| Applicant's or agent's file reference<br><b>210121.42723</b> | Date of mailing<br>(day/month/year) <b>10/04/2002</b>           |
| International application No.<br><b>PCT/US 01/09919</b>      | International filing date<br>(day/month/year) <b>27/03/2001</b> |
| Applicant<br><b>CORIXA CORPORATION</b>                       |   |

## 1. This International Searching Authority

- (i) considers that there are 651 (number of) inventions claimed in the international application covered by the claims indicated ~~below~~ on the extra sheet:

and it considers that the international application does not comply with the requirements of unity of invention (Rules 13.1, 13.2 and 13.3) for the reasons indicated ~~below~~ on the extra sheet:

- (ii) ☒ has carried out a partial international search (see Annex) ☐ will establish the international search report on those parts of the international application which relate to the invention first mentioned in claims Nos.:  
**1-17 (all partially)**

- (iii) will establish the international search report on the other parts of the international application only if, and to the extent to which, additional fees are paid

## 2. The applicant is hereby invited, within the time limit indicated above, to pay the amount indicated below:

EUR 945,00 x 650 = EUR 614.250,00  
Fee per additional invention      number of additional inventions      total amount of additional fees

Or, \_\_\_\_\_ x \_\_\_\_\_ = \_\_\_\_\_

The applicant is informed that, according to Rule 40.2(c), the payment of any additional fee may be made under protest, i.e., a reasoned statement to the effect that the international application complies with the requirement of unity of invention or that the amount of the required additional fee is excessive.

3. ☒ Claim(s) Nos. further info have been found to be unsearchable under Article 17(2)(b) because of defects under Article 17(2)(a) and therefore have not been included with any invention.

Name and mailing address of the International Searching Authority



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NL-2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Barbara Klaver

BK



1. The present communication is an Annex to the invitation to pay additional fees (Form PCT/ISA/206). It shows the results of the international search established on the parts of the international application which relate to the invention first mentioned in claims Nos.:
- 1-17
2. This communication is not the international search report which will be established according to Article 18 and Rule 43.
3. If the applicant does not pay any additional search fees, the information appearing in this communication will be considered as the result of the international search and will be included as such in the international search report.
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**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

| Category ° | Citation of document, with indication, where appropriate, of the relevant passages   | Relevant to claim No. |
|------------|--|-----------------------|
| X          | WO 98 37039 A (TADA KEISHI ;SAKAI YUICHI (JP); ASAHI CHEMICAL IND (JP); KOBAYASHI)<br>27 August 1998 (1998-08-27)                | 1-9,<br>11-16         |
| Y          | the whole document<br>SEQ ID NO 1  | 10,17                 |
| X          | WO 98 37418 A (CORIXA CORP)<br>27 August 1998 (1998-08-27)<br>the whole document<br>SEQ ID NO 1                                  | 1-8,<br>11-16         |
| X          | WO 00 04149 A (CORIXA CORP)<br>27 January 2000 (2000-01-27)  | 1-17                  |
| Y          | the whole document<br>SEQ ID NO 1  | 10,17                 |
| E          | WO 01 25272 A (CORIXA CORP ;REED STEVEN G (US); XU JIANGCHUN (US); CHEEVER MARTIN)<br>12 April 2001 (2001-04-12)<br>claims 50-71 | 9-17                  |
| E          | WO 01 34802 A (HARLOCKER SUSAN L ;CORIXA CORP (US); DAY CRAIG H (US); JIANG YUQIU)<br>17 May 2001 (2001-05-17)<br>claims 31-55   | 9-17                  |
| E          | WO 01 51633 A (FANGER GARY RICHARD ;HARLOCKER SUSAN L (US); MEAGHER MADELEINE JOY)<br>19 July 2001 (2001-07-19)<br>claims        | 1-17                  |

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

° Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
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- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

# Patent Family Annex

Information on patent family members

International Application No

PCT/US 01/09919

| Patent document<br>cited in search report |   | Publication<br>date | Patent family<br>member(s) | Publication<br>date |
|---|---|---------------------|----------------------------|---------------------|
| WO 9837039                                | A | 27-08-1998          | AU 727823 B2               | 21-12-2000          |
|   |   |                     | AU 6229598 A               | 09-09-1998          |
|   |   |                     | EP 0976699 A1              | 02-02-2000          |
|   |   |                     | JP 10291880 A              | 04-11-1998          |
|   |   |                     | WO 9837039 A1              | 27-08-1998          |
|   |   |                     | JP 11071192 A              | 16-03-1999          |
| -----                                     |   |                     |                            |                     |
| WO 9837418                                | A | 27-08-1998          | AU 6536898 A               | 09-09-1998          |
|   |   |                     | BR 9807734 A               | 31-10-2000          |
|   |   |                     | EP 0972201 A2              | 19-01-2000          |
|   |   |                     | JP 2001513886 T            | 04-09-2001          |
|   |   |                     | WO 9837418 A2              | 27-08-1998          |
|   |   |                     | ZA 9801536 A               | 08-01-1999          |
| -----                                     |   |                     |                            |                     |
| WO 0004149                                | A | 27-01-2000          | AU 5314899 A               | 07-02-2000          |
|   |   |                     | BR 9912007 A               | 29-01-2002          |
|   |   |                     | CN 1315998 T               | 03-10-2001          |
|   |   |                     | EP 1097208 A2              | 09-05-2001          |
|   |   |                     | NO 20010196 A              | 12-03-2001          |
|   |   |                     | WO 0004149 A2              | 27-01-2000          |
|   |   |                     | US 6329505 B1              | 11-12-2001          |
|   |   |                     | US 2002022248 A1           | 21-02-2002          |
| -----                                     |   |                     |                            |                     |
| WO 0125272                                | A | 12-04-2001          | AU 7994200 A               | 10-05-2001          |
|   |   |                     | WO 0125272 A2              | 12-04-2001          |
| -----                                     |   |                     |                            |                     |
| WO 0134802                                | A | 17-05-2001          | US 6329505 B1              | 11-12-2001          |
|   |   |                     | AU 1656501 A               | 06-06-2001          |
|   |   |                     | AU 6158700 A               | 30-01-2001          |
|   |   |                     | WO 0104143 A2              | 18-01-2001          |
|   |   |                     | WO 0134802 A2              | 17-05-2001          |
|   |   |                     | US 2002022248 A1           | 21-02-2002          |
| -----                                     |   |                     |                            |                     |
| WO 0151633                                | A | 19-07-2001          | AU 3447401 A               | 24-07-2001          |
|   |   |                     | AU 6158700 A               | 30-01-2001          |
|   |   |                     | WO 0104143 A2              | 18-01-2001          |
|   |   |                     | WO 0151633 A2              | 19-07-2001          |
|   |   |                     | US 2002022248 A1           | 21-02-2002          |
| -----                                     |   |                     |                            |                     |

PCT

From the INTERNATIONAL SEARCHING AUTHORITY

To:  
SEED INTELLECTUAL PROPERTY LAW GROU  
P PLLC  
Attn. POTTER, Jane E.R  
Suite 6300  
701 Fifth Avenue  
Seattle, WA 98104-7092  
UNITED STATES OF AMERICA

INVITATION TO PAY ADDITIONAL FEES

(PCT Article 17(3)(a) and Rule 40.1)

Applicant's or agent's file reference

210121.42720

International application No.

PCT/US 00/ 30904

Applicant

CORIXA CORPORATION et al.

Date of mailing  
(day/month/year)

25/09/2001

PAYMENT DUE

within 45 ~~days~~ days  
from the above date of mailing

International filing date  
(day/month/year)

09/11/2000

1. This International Searching Authority

- (i) considers that there are 450 (number of) inventions claimed in the international application covered by the claims indicated ~~on~~ on the extra sheet:

and it considers that the international application does not comply with the requirements of unity of invention (Rules 13.1, 13.2 and 13.3) for the reasons indicated ~~on~~ on the extra sheet:

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- (ii) ☒ has carried out a partial international search (see Annex)

☐ will establish the international search report

on those parts of the international application which relate to the invention first mentioned in claims Nos.:  
See additional sheet, Invention 1.

- (iii) will establish the international search report on the other parts of the international application only if, and to the extent to which, additional fees are paid

2. The applicant is hereby invited, within the time limit indicated above, to pay the amount indicated below:

EUR 945,00 x 449 = EUR 424.305,00  
Fee per additional invention number of additional inventions total amount of additional fees

Or, \_\_\_\_\_ x \_\_\_\_\_ = \_\_\_\_\_

The applicant is informed that, according to Rule 40.2(c), the payment of any additional fee may be made under protest, i.e., a reasoned statement to the effect that the international application complies with the requirement of unity of invention or that the amount of the required additional fee is excessive.

3. ☒ Claim(s) Nos. See Remark

Article 17(2)(b) because of defects under Article 17(2)(a) and therefore have not been included with any invention.

Name and mailing address of the International Searching Authority



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Fax: (+31-70) 340-3016

Authorized officer

Andria Overbeeke-Siepkens

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

Invention 1: Claims 1-11 14-64 partially

A polypeptide comprising at least an immunogenic portion of a prostate tumor protein defined as SEQ ID 108 and which is encoded by the related SEQ IDs 2,3,107 (according to the Description of the Sequence Identifiers), fragments and variants thereof, fusion proteins comprising it, polynucleotides or oligonucleotides derived therefrom, antibodies or fragments thereof binding to the polypeptide, pharmaceutical compositions or vaccines comprising these products and their use in methods for inhibiting, monitoring or diagnosing the development of a prostate cancer, for removing tumor cells from a sample or for expanding and/or stimulating T-cells.

Inventions 2-450: Claims 1-64 (all partially and as far as applicable)

As for subject 1 but concerning respectively SEQ IDs 1,4-106,109-111,115-171,173-175,177,179-305,307-315,326,328,330,332-335,340-375,381,382,384-476,524,526,530,531,533,535 and 536.

The use of polypeptides derived from prostate cancer cells for the development of therapeutic and diagnostic means has been well documented in the prior art :

[1] - W09733909, W09837093 and W0 9837418 disclose polypeptides for treating and diagnosing prostate cancer. These polypeptides (or the corresponding nucleic acid sequences) are used for the preparation of vaccines and other pharmaceutical compositions, antibodies, probes or primers

[2] - In IMMUNOTECHNOLOGY 3 (1997),161-172, Sjögren, H. reviews the various techniques used for cancer-vaccination by using engineered cells. In figures 1 and 2, the author summarises the key factors involved in the interactions between T-cells and antigen-presenting cells, in particular dendritic cells. The success of these therapy is exemplified, among others, with prostate cancer in rats (see pages 167 and 168).

In view of the prior art, the problem underlying the application can be defined as the provision of further polypeptides derived from prostate cancer.

The solutions proposed in the underlying application can be summarised as the polypeptides (and the corresponding nucleic acids) as defined in claims 1 and 31.

Due to the fact that the use of polypeptides derived from prostate cancer cells for the development of therapeutic and diagnostic means is known in the prior art, that therapeutic immunization techniques against cancers, and especially prostate cancer are common state of the art, due to the essential difference in primary structure of the different groups of solutions, and due to the fact that no other technical features can be distinguished which, in the light of the prior art could be regarded as special technical features, the ISA is of the opinion that there is no single inventive concept underlying the plurality of claimed inventions of the present application in the sense of rule 13.1 PCT. Consequently there is lack of unity.

The applicant states and shows that some sequences as defined in claims 1 and 31 correspond to the same product (e.g. clone F1-12 corresponds to SEQ IDs 2,3, 107 and 108) and therefore to the same inventive concept. Nevertheless, due to the lack of an obvious and straight forward relationship between the product designations and the corresponding sequences in the Sequence Listing, the ISA had to consider (with exception of Subject 1.) each sequence as a different invention formulated as the 450 different subjects on the communication pursuant to Art. 17(3)(a) PCT.

In case the applicant choses to pay one or more additional search fees for any of subjects 2 to 450, and provides a clear relationship between a product designation and several of the sequences, the ISA is willing to regroup these sequences in one search effort.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 206

Continuation of Box 3.

Although claims 23 24 31-33 36 37 39-41 are (partially) directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.

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**Annex to Form PCT/ISA/206  
COMMUNICATION RELATING TO THE RESULTS  
OF THE PARTIAL INTERNATIONAL SEARCH**

International Application No  
**PCT/US 00/30904**

1. The present communication is an Annex to the invitation to pay additional fees (Form PCT/ISA/206). It shows the results of the international search established on the parts of the international application which relate to the invention first mentioned in claims Nos.:  
**1-11, 14-64**
2. This communication is not the international search report which will be established according to Article 18 and Rule 43.
3. If the applicant does not pay any additional search fees, the information appearing in this communication will be considered as the result of the international search and will be included as such in the international search report.
4. If the applicant pays additional fees, the international search report will contain both the information appearing in this communication and the results of the international search on other parts of the international application for which such fees will have been paid.

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

| Category * | Citation of document, with indication, where appropriate, of the relevant passages  | Relevant to claim No.                       |
|------------|---|---|
| X          | <del>WO 98 37093 A (CORIXA CORP)</del><br>27 August 1998 (1998-08-27)   | 1-11,<br>14-24,<br>60,61,<br>63,64<br>25-41 |
| Y          | the whole document<br>---   |   |
| X          | <del>WO 98 37418 A (CORIXA CORP)</del><br>27 August 1998 (1998-08-27)<br>the whole document<br>---  | 1-11,<br>42-64                              |
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|            | -/--  |   |

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

**Annex to Form PCT/ISA/206  
COMMUNICATION RELATING TO THE RESULTS  
OF THE PARTIAL INTERNATIONAL SEARCH**

International Application No  
**PCT/US 00/30904**

| C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT |   |                       |
|--|---|-----------------------|
| Category *   | Citation of document, with indication, where appropriate, of the relevant passages  | Relevant to claim No. |
| Y  | SCHMIDT-WOLF G D ET AL: "Activated T cells and cytokine-induced CD3+CD56+ killer cells."<br>ANNALS OF HEMATOLOGY,<br>vol. 74, no. 2, 1997, pages 51-56,<br>XP002176407<br>ISSN: 0939-5555<br>the whole document<br>---  | 34-36                 |
| A  | <del>WO 97 33909 A (CORIXA CORP)</del><br>18 September 1997 (1997-09-18)<br>---   |                       |
| Y  | <del>SJOGREN H O: "Therapeutic immunization against cancer antigens using genetically engineered cells"</del><br>IMMUNOTECHNOLOGY, ELSEVIER SCIENCE PUBLISHERS BV, NL,<br>vol. 3, no. 3,<br>1 October 1997 (1997-10-01), pages 161-172, XP004097000<br>ISSN: 1380-2933<br>the whole document<br>--- | 25-33,<br>37-41       |
| P,X  | <del>WO 00 04149 A (CORIXA CORP)</del><br>27 January 2000 (2000-01-27)<br>the whole document<br>---   | 1-11,<br>14-64        |
| E  | <del>WO 01 25272 A (CORIXA CORP ; REED STEVEN G (US); XU JIANGCHUN (US); CHEEVER MARTIN)</del><br>12 April 2001 (2001-04-12)<br>claims<br>-----   | 1-11,<br>14-64        |



# Patent Family Annex

Information on patent family members

International Application No

PCT/US 00/30904

| Patent document<br>cited in search report |   | Publication<br>date | Patent family<br>member(s) | Publication<br>date |
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